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DATE MAILED: 06/25/2004

APPLICATION NO.	FIL	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,572	07	/18/2003	Akihisa Itabashi	240017US2DIV	2127
22850	7590	06/25/2004		EXAMINER	
•	•	CCLELLAND, N	PHAM, HAI CHI		
1940 DUKE ALEXANDF		22314		ART UNIT PAPER NUMBER	
	,			2861	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summany	10/621,572	ITABASHI, AKIHISA					
Office Action Summary	Examiner	Art Unit	7				
	Hai C Pham	2861	And				
The MAILING DATE of this communication app Period for Reply	ears on the cov r sheet with the c	orrespondence addre	ess				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_•						
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.						
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-3</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3</u> is/are rejected.	<u> </u>						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-	152.				
Priority under 35 U.S.C. § 119							
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Sta	age				
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/18/03,10/20/03.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	52)				
S. Patent and Trademark Office							

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

- 2. Claim 1 is objected to because of the following informalities:
 - Line 14, "house" should read --housing--.
 Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Tachibe et al. (U.S. 6,195,190).

Tachibe et al., an acknowledged prior art, discloses an optical beam scanning device having a light source (11) emitting a light beam directed to a mirror of a mechanical deflector (polygon mirror 15) through a first optical system (cylindrical lens 20), the light beam being deflected in a main scanning direction by the mirror surface of the deflector through a second optical system (scanning lenses 7) to a surface to be scanned (light sensitive body) moving in a sub-scanning direction, the angle of said mirror surface changing due to rotation of the mirror, wherein the light source, the first optical system, the mechanical deflector and the second optical system is contained in a housing (casing 2) (Fig. 1) and wherein the mechanical deflector is directly mounted to said housing (Fig. 2), the material of said housing has heat conductivity smaller than that of a part of said mechanical deflector in contact with said housing (the casing 2 being made of magnesium, and the polygon mirror 15 being in contact with the casing through a highly heat conductive elastic sheet 17) (col. 7, lines 28-43).

Tachibe et al. further teaches :

 The mechanical deflector being covered by a cover (8) having an optical window (10), and thereby, an air flow (convection of air) occurring due to rotation of said mirror is kept within said cover (col. 7, lines 11-17); Application/Control Number: 10/621,572 Page 4

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 A cooling part (cooling blower, not shown) forcibly cooling said mechanical deflector (col. 7, lines 44-52).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HAI PHAM
PRIMARY EXAMINER

Hailithour

June 23, 2004